**MAT1175 Intermediate Algebra, custom edition (2011) by Miller, O’Neill, and Hyde**

**Elementary College Geometry by Henry Africk**

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|  | **Date** | **Topic** | **Homework Assignment** | **Workshop** |
| 1 | 1/28 | **A 4.1** (Ex. 1-3) Properties of Integer Exponents and Scientific Notation (pp. 314-316) | p. 321 # 11-17 odd, 25-31 odd, 33-55 odd, 61, 63 |  |
| 2 | 1/30 | **A 4.1** (Ex. 4-7) Properties of Integer Exponents and Scientific Notation (pp. 317-320)  **A 2.1** (Ex. 1-6, 8, 9) Linear Equations in Two Variables (pp. 128-137) | p. 321 # 65, 69-83 odd, 85-90 all, 91-103 odd  p. 140 # 15-29 odd | **Self-Efficacy Survey**  **Module 1** |
| 3 | 2/4 | **A 2.2** (Ex. 2-7) Slope of a Line and Rate of Change (pp. 145-150)  **A 2.3** (Ex. 1-3) Equations of a Line (pp. 156-159) | p. 153 # 13-23 odd, 39-51 odd  p. 165 # 7-17 odd, 25-29 odd, 33-37 odd |  |
| 4 | 2/6 | **A 2.3** (Ex. 4-8) Equations of a Line (pp. 159-163)  **A 3.1** (Ex. 1-4) Solving Systems of Linear Equations by the Graphing Method (pp. 234-238) | p. 167 # 39-73 odd  p. 239 # 3-7 odd, 15-23 odd, 27, 31 | **Module 2** |
| 5 | 2/11 | **A 3.2** (Ex. 1-3) Solving Systems of Linear Equations by the Substitution Method (pp. 243-246)  **A 3.3** (Ex. 1, 2, 5) Solving Systems of Linear Equations by the Addition Method (pp. 249-253) | p. 248 # 9-21 odd, 25, 35-37 all  p. 254 # 5-11 odd, 15, 19, 23, 27, 29, 35 |  |
| 6 | 2/13 | **A 4.2** (Ex. 1-5, 7, 8)  Adding & Subtracting Polynomials (pp. 323-328)  **A 4.3** (Ex. 1-5) Multiplication of Polynomials (pp. 334-337) | p. 330 # 19, 21, 25-29 odd, 37-43 odd, 47, 49, 51-71 odd, 75, 85, 89, 95  p. 340 # 7, 8, 13, 14, 17-25 odd, 31, 32, 37, 41-53 odd, 93, 97-101 odd | **Module 3**  **Review for Exam #1** |
| 7 | 2/18 | **A 4.4** (Ex. 1-3) Division of Polynomials (pp. 343-347)  **A 4.5** (Ex. 1-5) The Greatest Common Factor & Factoring by Grouping (pp. 354-358) | p. 351 # 9-17 odd, 25, 27-30 all, 31-37 odd  p. 360 # 9-25 odd, 31-37 odd, 45-49 odd, 71 |  |
|  | 2/20 | **No Classes. College is Closed.** |  |  |
| 8 | 2/25 | **EXAM #1**  **A 4.6** (Ex. 1-9) Factoring Trinomials (pp. 362-371) | p. 373 # 9-35 odd, 55-58 all, 87, 88, 91, 93, 94, 95 |  |
| 9 | 2/27 | **A 4.7** (Ex. 1-3) Factoring Binomials (pp. 376-377)  **A 4.8** (Ex. 1-3, 7, 8) Solving Equations by Using the Zero Product Rule (pp. 388-393) | p. 383 # 11-17 all, 59, 60, 95, 96  p. 397 # 17-20 all, 25-35 odd, 42, 43, 45, 63, 65, 67, 72, 75 | **Module 4** |
| 10 | 3/4 | **A 5.1** (Ex. 3, 4, 6) Rational Expression (pp. 416-422)  **A 5.2** (Ex. 1-3) Multiplication of Rational Expression (pp. 426-428) | p. 424 # 31-39 odd, 43, 48, 65-73 odd  p. 429 # 11-21 odd, 23-31 odd |  |
| 11 | 3/6 | **A 5.3** (Ex. 1-9)Addition & Subtraction of Rational Expressions (pp. 431-438) | p. 438 # 7-11 odd, 33-45 odd, 49-57 odd, 79, 81 | **Module 5** |
| 12 | 3/11 | **A 5.5** (Ex. 1-5) Solving Rational Equations (pp. 449-454) | p. 455 # 9-19 odd, 29-37 odd |  |
| 13 | 3/13 | **A 6.1** (Ex. 1-3) Definition of an nth Root (pp. 492-494)  **A 6.3** (Ex. 1, 3-6) Simplifying Radical Expressions (pp. 510-514) | p. 500 # 7-15 odd  p. 515 # 9, 13, 17-21 odd, 25, 33, 35, 37, 45, 49, 53, 55, 61, 65-71 odd, 77, 79 | **Module 6** |
| 14 | 3/18 | **A 6.4** (Ex. 1-4) Addition and Subtraction of Radicals (pp. 517-519)  **A 6.5** (Ex. 1-7) Multiplication of Radicals (pp. 522-526) | p. 520 # 15, 19, 23, 35-41 odd, 45, 51, 55, 57, 79, 81  p. 528 # 11, 17-23 odd, 29, 31, 35, 37, 41, 45, 47, 51, 55, 57, 61, 63, 77, 85, 87 |  |
| 15 | 3/20 | **A 6.6** (Ex. 1, 3, 5, 7-9) Division of Radicals and Rationalization (pp. 531-537) | p. 538 # 11, 13, 17, 31-39 odd, 53, 63, 65, 67, 75-81 odd | **Module 7**  **Review for Exam #2** |
| 16 | 3/25 | **EXAM #2**  **A 6.7**  (Ex. 1, 4) Solving Radical Equations (pp. 540-543) | p. 547 # 11-16 all, 21, 23, 37-42 all, 63, 64 |  |
| 17 | 3/27 | **A 7.1** (Ex. 1-3) Square Root Property (pp. 574-575)  **A 7.2** (Ex. 1, 3, 8) Quadratic Formula (pp. 583-592) | p. 580 # 2-5 all, 8, 9, 11, 15  p. 595 # 9, 12, 15-20 all, 23, 25, 41, 43, 77 | **Module 8** |
| 18 | 4/1 | **G 1.1** Lines: pp. 1-6: Ex. A-D  **G 1.2** Angles pp. 8-13: Ex. A-C  **G 1.3** Angle Classifications: pp.17-24: Ex. A-F | p. 7 #1-5 odd  p. 14 #1-27 odd  p. 26 #1-25 odd |  |
| 19 | 4/3 | **G 1.4** Parallel Lines: pp. 30-38: Ex. A-E  **G 1.5** Triangles: pp. 46-54: Ex. A-F  **G 2.1** The Congruence Statement: pp. 67-70: Ex. A-C | p. 42 # 1-25 odd  p. 55 # 1-25 odd  p. 71 # 1-9 odd | **Module 9** |
| 20 | 4/8 | **G 2.2** The SAS Theorem: pp. 73-78: Ex. A-C  **G 2.3** The ASA and AAS Theorem: pp. 84-91: Ex. A-D  **G 2.6** The SSS Theorem: pp. 113-115: Ex. A, B | p. 81 # 1-23 odd  p. 93 # 1-21 odd  p. 118 # 1-7 odd |  |
| 21 | 4/10 | **G 2.5** Isosceles Triangles: pp.103-109: Ex. A-D  **G 3.1** Parallelograms: pp. 130-138: Ex. A-G | p. 111 # 1-13 odd  p. 139 # 1-17 odd | **Module 10** |
|  |  | **April 14 – April 22 Spring Recess** |  |  |
| 22 | 4/24 | ***Last day to withdraw with W grade***  **G 3.1** Parallelograms: pp. 130-138: Ex. A-G  **G 4.1** Proportions: pp. 157-160: Ex. A, B | p. 139 # 1-17 odd  p. 161 # 1-11 odd | **Module 11**  **Review for Exam #3** |
| 23 | 4/29 | **EXAM #3**  **G 4.2** Similar Triangles: pp. 162-169: Ex. A-H | p. 173 # 1-21 odd |  |
| 24 | 5/1 | **G 4.4** Pythagorean Theorem: pp. 182-186: Ex. A-D  **G 6.1** The Area of a Rectangle and Square: pp.244-247: Ex.A-D  **G 6.2** The Area of a Parallelogram: pp. 253-257: Ex. A,B,D,E  **G 6.3** The Area of a Triangle: pp. 260-264: Ex. A,C,D | p. 192 # 1-15 odd  p. 249 # 1-9 odd, 15, 17  p. 258 # 1, 3, 9, 11, 13  p. 265 # 1, 3, 7-13 odd, 21, 23 | Module 12 |
| 25 | 5/6 | **G 4.5** Special Right Triangles: pp. 197-203: Ex. A-D | p. 207 # 1-19 odd  p. 249 # 11, 13  p. 258 # 7  p. 265 # 15, 17 |  |
| 26 | 5/8 | **G 5.1** The Trigonometric Functions: pp. 215-222: Ex. A-G  **G 5.2** Solution of Right Triangles: pp. 225-230: Ex. A-G | p. 223 # 1-19 odd  p. 234 # 11-41 odd | **Module 13** Review for Exam #4 |
| 27 | 5/13 | **G 6.2** The Area of a Parallelogram: pp. 253-257: Ex. C  **G 6.3** The Area of a Triangle: pp. 260-264: Ex. B  **G 7.5** Circumference of a Circle: pp. 331-335: Ex. A,D  **G 7.6** Area of a Circle: pp. 342: Ex. A | p. 242 # 1-5 odd  p. 258 # 5,  p. 265 # 5, 19  p. 339 # 1-5 odd, 19-23 odd  p. 348 # 1, 3, 7, 9 |  |
| 28 | 5/15 | **EXAM #4**  **(covers topics from the entire course)** | Review sheet | **Module 14 Review for Final Exam**  **Self-Efficacy Survey**  PAL Survey |
| 29 | 5/20 | Review for the Final Exam | Review sheet |  |
| 30 | 5/22 | **FINAL EXAM**. Last Day of Class | Good luck on the final and have a good summer |  |